Evaluation of 2004 Delivered Nutrient Loads

VS.

Commonwealth of Virginia Water Quality Management Planning Regulation 9 VAC 25-720

Notes

•The following include 2004 effluent loads and wasteload allocations from the Commonwealth of Virginia Water Quality Management Planning Regulations (9 VAC 25-720) approved and subsequently suspended by the State Water Control Board on June 28, 2005.

•Blue shaded fields represent facilities which exceeded the wasteload allocations by the greatest amount. Had the facilities listed in blue complied with the wasteload allocations (zero 2004 excess in the next to last column) sufficient credits would have been available for the point sources to meet their combined basin-wide allocation. Figures do not represent violations of current VPDES permits.

Shenandoah/Potomac River Basin

	January 2005 Tributary Strategy Delivered Allocation	Water Quality Management Plan Delivered Allocation	
	(lbs/yr)	(lbs/yr)	% Change
Total N	3,906,409	4,010,185	+3%
Total P	213,135	221,923	+4%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	5,947,799	4,939,941	-17%
Total P	409,373	346,089	-15%

	I		2004		Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Ava Q (MGD)		TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN		Excess TN
Potomac/Sh		Avg Q (MOD)	avg mv (mg/)	TIV Load (IDS/JI)	(MOD)	Allocation	Dollvered 114	111	EX0033 114
VA0025143		28.41	8.13	698,431	40.00	365,467	698,431	332,964	332,964
	Alexandria S.A.	37.47	6.29	722,490	54.00				
VA0025364	Noman Cole	41.92	6.15	782,974	67.00	612,158			
	Blue Plains (VA Share)	39.44	6.01	725,037	47.73				
VA0060640		11.23	9.46	326,371	16.00	85,763	143,603		934,309
VA0075191		1.63	22.50	110,718	2.10	27,045		54,886	989,195
VA0062812	Front Royal	3.30	9.56	94,013	4.00	32,648	62,989		1,019,536
	Waynesboro	3.72	10.05	113,632	4.00	21,441	49,998		1,048,093
VA0060968	Aguia	4.39	7.43	98,927	6.50	73,093		25,834	
VA0028363	Quantico	1.09	12.39	42,141	2.20	20,101	42,141	22,040	1,095,967
VA0020311	Strasburg	0.88	15.93	42,713	0.98	7,999			1,116,585
VA0065552	Opequon	7.80	5.24	125,297	8.40	75,729	92,720		1,133,576
VA0062642		1.42	12.85	55,955	1.60	8,576			1,149,620
VA0090263	- 1	1.25	9.95	45,962	1.92	15,671	30,794	15,123	1,164,743
	New Market	0.64	14.00	27,098	0.50	4,081	18,155		1,178,818
VA0002178		7.53	5.48	125,170	10.09	42,321			1,191,572
VA0024724		3.09	5.23	49,040	4.00	36,547	49,040	12,493	1,204,064
	Colonial Beach	0.89	11.40	30,441	2.00	18,273			1,216,232
VA0026468		0.67	18.70	38,286	0.80	16,324	25,651	9,328	1,225,560
VA0020532		0.38	18.66	21,791	0.45	5,714	14,600		1,234,446
	Weyers Cave	0.25	24.50	18,917	0.50	2,680			1,240,089
	Massanutten	0.61	13.98	25,790	1.50	8,040	11,348	3,307	1,243,397
	Mt. Jackson	0.21	18.70	11,724	0.60	4,897	7,855		1,246,355
VA0025291		1.21	14.58	53,056	2.00	21,441	23,345		1,248,258
	Middle River	4.01	7.13	86,627	6.80	36,449	38,116		1,249,925
VA0026212		0.19	18.70	10,978	0.50	7,584	9,112		1,251,453
VA0028389	Stoney Creek	0.51	6.37	9,493	0.60	4,897	6,360		1,252,916
VA0020460	Vint Hill	0.07	18.70	4,044	0.60	3,180	2,346		1,252,082
	Purkins Corner STP	0.00	0.00	0	0.50	1,096	0		1,250,986
	Dahlgren SD	0.21	11.98	7,875	1.00	9,137	7,875		1,249,725
	Fairview Beach	0.00	0.00	0	0.20	1,827	0		1,247,898
	VA Poultry Growers - Hinton	0.59	16.88	22,005	1.50	12,060	9,682	-2,378	1,245,519
	NSWC-Dahlgren	0.32	4.09	4,077	0.72	6,578		-2,501	1,243,019
	Basham Simms (Purcellville)	0.50	5.03	7,582	1.00	10,111	6,293	-3,818	1,239,201
VA0090328	North Fork Regional WWTP			,	0.75	6,122	0	-6,122	1,233,079
VA0024678	DSC #8	3.00	3.22	29,478	4.00	36,547	29,478	-7,069	1,226,010
	Georges Chicken	1.28	4.98	19,609	1.70	20,814	13,138	-7,675	1,218,335
VA0001961	Pilgrim's Pride - Alma			,		8,040	0	-8,040	1,210,295
VA0073245	Coors	0.85	13.55	35,189	4.50	24,121	15,483	-8,638	1,201,657
VA0066877	Stuarts Draft	1.14	4.47	15,440	2.40	21,441	6,794	-14,647	1,187,010
	Invista-Waynesboro (101)	3.93	2.51	30,103	2.97	34,734	13,245	-21,489	1,165,521
VA0025101	H.L. Mooney	12.39	4.89	185,296	24.00	219,280	185,296	-33,984	1,131,536
MD0066184	Leesburg	3.58	5.94	64,881	10.00	101,112		-47,261	1,084,275
VA0024988		27.25	14.78	1,223,602	54.00	763,096	709,689		1,030,868
VA0091383	Broad Run	0.00	0.00	0	10.00	101,112	0		929,756
Potomac/Sh	enanadoah Totals					4,010,185	4,939,941	929,756	

		2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No. Fac	ility Ava Q (MGD	Ava TP (ma/l)	TP Load (lbs/yr)		Allocation (lbs/yr)		TP	Excess TP
Potomac/Shenanadoah	inty programmes	//g (g)	TT Esta (Issirji)	(02)	raiocadori (ibaryi)	Don't Croa 11		EXCOCC II
VA0064793 Middle River	4.01	1.38	86,627	6.80	4,809	67.049	62,240	62,240
VA0090263 SIL MRSS	1.28							123,002
VA0075191 Parkins Mill	1.63		28,963	2.10		22,301	20,191	143,192
VA0002313 VA Poultry Gro						20,960		163,091
VA0025151 Waynesboro	3.72			4.00		13,334	10,505	173,596
VA0025291 Fishersville	1.21					9,601	6,772	180,368
VA0073245 Coors	0.85							186,733
VA0062642 Luray	1.42			1.60				192,474
VA0002178 Merck	7.53					16,849		197,431
VA0062812 Front Royal	3.30			4.00			4,812	202,243
VA0026409 Colonial Beach				2.00		5,654		206,070
VA0024732 Massanutten	0.61			1.50		4,712	3,651	209,721
VA0022853 New Market	0.64			0.50		3,745		213,112
VA0020311 Strasburg	0.88	1.72	4,621	0.98	693	3,576	2,884	215,996
VA0021067 NSWC-Dahlgre	en 0.32	3.75	3,535	0.72	658	3,535	2,877	218,873
VA0026468 Woodstock	0.67	2.50	5,118	0.80	1,414	3,962	2,548	221,421
VA0020532 Berryville	0.38		2,918	0.45	495	2,259		223,184
MD0066184 Leesburg	3.58	1.04	11,376	10.00	7,072	8,805	1,733	224,918
VA0077402 Georges Chick	en 1.28		3,541	1.70		2,741	1,539	226,456
VA0065552 Opequon	7.80			8.40	5,910	7,431	1,521	227,977
VA0022349 Weyers Cave	0.25	2.13		0.50		1,265		228,889
VA0066877 Stuarts Draft	1.14	1.37	4,816	2.40	2,829	3,727	898	229,788
VA0026441 Mt. Jackson	0.21			0.60		1,213		230,577
VA0026212 Round Hill	0.19			0.50		1,136	606	231,182
VA0028389 Stoney Creek	0.51	0.56	862	0.60		667	243	231,425
VA0060640 North River	11.23			16.00	11,315	11,238		231,349
VA0070106 Purkins Corner	STP 0.00			0.50				231,239
VA0020460 Vint Hill	0.07	1.38	292	0.60		128	-113	231,126
MD0056464 Fairview Beach				0.20		0		230,943
VA0022802 Basham Simms	s (Purcellville) 0.50	0.38	563	1.00		436		230,672
VA0090328 North Fork Reg				0.75		0		230,141
VA0026514 Dahlgren SD	0.21			1.00		369		229,597
VA0002160 Invista-Waynes		0.01	120	2.97	781	93		228,908
VA0001961 Pilgrim's Pride					707	0		228,201
VA0028363 Quantico	1.09					220	-986	227,215
VA0024678 DSC #8	3.00			4.00		897	-1,296	225,919
VA0024724 DSC #1	3.09			4.00		861	-1,332	224,587
VA0091383 Broad Run	0.00					0	-,	222,229
VA0060968 Aquia	4.39			6.50		1,897	-2,489	219,740
VA0024988 UOSA	27.25					2,484		214,988
VA0025101 H.L. Mooney	12.39					4,384	-8,773	206,215
DC0021199 Blue Plains (VA				47.73				194,420
VA0025143 Arlington	28.41			40.00		4,291	-17,637	176,783
VA0025160 Alexandria S.A.				54.00				153,242
VA0025364 Noman Cole	41.92	0.06	7,654	67.00				124,166
Potomac/Shenanadoah Tota	ils				221,923	346,089	124,166	

Rappahannock River Basin

	January 2005 Tributary Strategy Delivered Allocation	Water Quality Management Plan Delivered Allocation	
	(lbs/yr)	(lbs/yr)	% Change
Total N	463,637	496,320	+7%
Total P	39,910	43,741	+10%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	589,474	511,415	-13%
Total P	73,362	62,728	-14%

			2004	_	Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TN (mg/l)	TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
Rappahanno	ock River								
VA0003867	Omega Protein	9.04	8.19	83,974	3.80	21,213	83,974	62,761	62,761
VA0021172	Warrenton	1.64	17.12	83,373	2.50	18,578	50,857	32,279	95,041
VA0025127	Fredericsburg	2.41	8.57	63,829	3.50	42,638	63,829	21,191	116,232
VA0083411	Wilderness Shores	0.57	18.70	32,342	0.75	9,289	19,728	10,439	126,671
VA0026891		0.23	18.70	13,178	0.30	3,655		9,523	136,195
VA0021385		0.80	18.70	45,502	1.50	22,294	27,756	5,463	141,657
VA0031763	Marshall	0.23	18.70	13,139	0.64	4,756	8,015	3,258	144,916
VA0026263	Urbanna	0.06	24.63	4,239	0.10	1,218	4,239	3,021	147,937
VA0061590		2.76		58,535	4.50	33,440	35,706	2,266	150,203
VA0023469	Haynesville	0.09	12.26	3,423	0.23	2,802	3,423	621	150,824
VA0060712		0.05		2,663	0.20	2,436	2,663	227	151,050
VA0032034	US Army-Ft. A.P. Hill	0.11	18.85	6,411	0.53	6,457	6,411	-46	151,004
VA0072729	Montross-Westmoreland	0.05	7.85	1,118	0.10	1,218	1,118	-100	150,904
VA0071471	Tappahannock	0.44	7.48	9,541	0.80	9,746	9,541	-205	150,699
	Oakland Park STP					1,706	0	-1,706	148,993
VA0020788		0.18		2,440	0.50	6,091	2,440	-3,651	145,343
VA0090948	Rapidan STP	0.00	0.00	0	0.60	4,458	0	-4,458	140,884
	Clevengers Corner STP	0.00	0.00	0	0.90	4,458	0	-4,458	136,426
	Hopyard Farms STP					6,091	0	-6,091	130,335
VA0089125	Haymount	0.00			0.95	7,066	0	-7,066	123,269
VA0076805		0.71	3.64	8,757	2.00	14,862	5,341	-9,521	113,748
	Mountain Run					11,147	0	-11,147	102,602
VA0068110		2.53	5.43	41,729	5.40	65,784		-24,055	78,547
VA0025658	Massaponax	4.86		69,157	8.00	97,458		-28,301	50,246
	Little Falls Run (Stafford)	3.38	6.03	62,308	8.00	97,458		-35,150	15,095
Rappahanno	ock River Totals					496,320	511,415	15,095	

	2004 Design Flow TP Delivered 2004 2004 Excess 2004 Cumulative									
			2004		Design Flow		2004		-	
Permit No.	Facility	Avg Q (MGD)	Avg TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP	
Rappahanno						0.075			5 000	
VA0021172		1.64								
VA0061590		2.76			4.50				11,080	
	Fredericsburg	2.41			3.50				14,702	
VA0021385		0.80					6,327	3,476		
	Wilderness Shores	0.57			0.75			3,309	21,487	
VA0026891		0.23			0.30		1,762		22,974	
	Omega Protein	9.04		2,965	3.80	1,591	2,965	1,374	24,349	
VA0031763		0.23		1,757	0.64	608	1,827	1,218	25,567	
VA0026263		0.06	5.23	907	0.10	91	907	816	26,383	
VA0020788		0.18		992	0.50	457	992	535	26,918	
	Tappahannock	0.44	0.90	1,197	0.80	731	1,197	466	27,385	
VA0060712	Reedville	0.05	2.50	356	0.20	183	356	173	27,558	
VA0023469	Haynesville	0.09	1.12	314	0.23	210	314	104	27,661	
VA0072729	Montross-Westmoreland	0.05	1.29	189	0.10	91	189	98	27,759	
VA0076805	Remington	0.71	0.77	1,755	2.00	1,900	1,825	-75	27,684	
VA0076392	Little Falls Run (Stafford)	3.38	0.71	7,199	8.00	7,309	7,199	-110	27,574	
VA0086789	Oakland Park STP					128	0	-128	27,446	
VA0032034	US Army-Ft. A.P. Hill	0.11	0.23	77	0.53	484	77	-407	27,039	
VA0089338	Hopyard Farms STP					457	0	-457	26,582	
VA0025658	Massaponax	4.86	0.47	6,785	8.00	7,309	6,785	-524	26,058	
VA0089125	Haymount	0.00	0.00	0	0.95	530	0	-530	25,528	
VA0090948	Rapidan STP	0.00	0.00	0	0.60	570	0	-570	24,958	
VA0080527	Clevengers Corner STP	0.00	0.00	0	0.90	570	0	-570	24,388	
	Mountain Run					1,426	0	-1,426	22,962	
VA0068110	FMC	2.53	0.13	958	5.40	4,934	958	-3,976	18,986	
	ock River Totals					43,741	62,728	18,986		

Eastern Shore Basin

	January 2005 Tributary Strategy Delivered Allocation (lbs/yr)	Water Quality Management Plan Delivered Allocation (lbs/yr)	% Change
Total N	31,125	34,415	+11%
Total P	1,845	2,009	+9%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	234,111	192,544	-18%
Total P	7,678	6,699	-13%

			2004		Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TN (mg/l)	TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
Eastern Shor	re								
VA0004049	Tyson Food - Temperanceville	1.18	47.33	171,227	1.07	22,842	171,227	148,385	148,385
VA0027537	Shore Health Services	0.13	22.00	8,885	0.10	1,218	8,885	7,667	156,051
VA0021253	Onancock	0.25	8.17	6,265	0.25	3,046	6,265	3,219	159,270
VA0067423	Tangier Island	0.05	7.81	1,230	0.10	1,218	1,230	12	159,283
VA0021288	Cape Charles	0.17	9.38	4,938	0.50	6,091	4,938	-1,153	158,129
Eastern Shor	re Totals					34,415	192,544	158,129	

			2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP
	Eastern Shore								
	Shore Health Services	0.13	6.55			91	2,645	2,554	
VA0021253	Onancock	0.25	1.75	1,330	0.25	228	1,330	1,102	3,656
VA0004049	Tyson Food - Temperanceville	1.18	0.58	2,110	1.07	1,142	2,110	968	4,624
	Tangier Island	0.05	1.00	157	0.10	91	157	66	4,690
VA0021288	Cape Charles	0.17	0.86	457	0.50	457	457	0	4,690
Eastern Shor	re Totals					2,009	6,699	4,690	

York River Basin

	January 2005 Tributary Strategy Delivered Allocation	Water Quality Management Plan Delivered Allocation	0/
	(lbs/yr)	(lbs/yr)	% Change
Total N	993,781	760,472	-23%
Total P	87,831	127,685	+45%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	1,174,445	1,328,761	+13%
Total P	162,110	159,452	-2%

			2004		Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)		TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
York River									
	HRSD-York	12.69	17.35	669,369	15.00	182,734	669,369	486,635	
	Giant Refinery	52.47	1.76	308,716	53.80	167,128	308,716	141,588	628,224
VA0075434	HRSD-West Point	0.57	15.60	26,744	0.60	7,309	26,744	19,435	647,658
VA0029521		4.26	5.37	69,880	6.75	30,350	35,639	5,288	
	Caroline County Regional STF	0.25	20.00	15,119	0.50	2,558	6,350	3,792	656,739
VA0024899	Ashland	1.43	6.68	28,724	2.00	12,426	14,649	2,224	658,962
	Mathews CH	0.05	9.60	1,430	0.10	1,218	1,430	212	659,175
	Gordonsville	0.43	4.93	6,396	0.67	115	64	-51	659,124
	Smurfit Stone	18.46	4.57	257,437	23.00	259,177	257,437	-1,740	657,384
VA0088331	Parham Landing	0.11	9.21	3,107	0.57	36,547	3,107	-33,440	623,945
	Totopotomoy	0.39	3.69	5,255	5.00	60,911	5,255	-55,656	568,289
York River T	otals					760,472	1,328,761	568,289	

			2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP
York River									
VA0081311	HRSD-York	12.69	1.40	53,934	15.00	13,705	53,934	40,229	
VA0029521	Doswell	4.26	3.74	48,491	6.75	12,061	29,095	17,034	
VA0024899	Ashland	1.43	2.22	9,610	2.00	1,096	5,766	4,670	61,933
	HRSD-West Point	0.57	2.25	3,855	0.60	548	3,855	3,307	65,240
	Gordonsville	0.43	1.21	1,591	0.67	515	954	439	65,679
	Caroline County Regional STP	0.25	1.14		0.50	201	380	179	,
	Mathews CH	0.05	1.28	200	0.10	91	200	109	65,967
VA0088331	Parham Landing	0.11	0.27	88	0.57	2,741	88	-2,653	63,314
	Totopotomoy	0.39	0.70	850	5.00	4,568	850	-3,718	59,596
	Giant Refinery	52.47	0.07	11,313	53.80	22,111	11,313	-10,798	48,798
VA0003115	Smurfit Stone	18.46	0.95	53,016	23.00	70,048	53,016		
York River T	otals					127,685	159,452	31,767	

James River Basin

	January 2005 Tributary Strategy Delivered Allocation	Water Quality Management Plan Delivered Allocation	
	(lbs/yr)	(lbs/yr)	% Change
Total N	11,164,092	12,582,319	+13%
Total P	1,182,502	1,234,466	+4%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	15,106,610	15,846,358	+5%
Total P	1,753,321	1,636,177	-7%

			2004		Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TN (mg/l)	TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
James River									
VA0081272	HRSD-James River	15.17	26.58	1,220,106	20.00	487,290	1,220,106	732,816	732,816
VA0063177	Richmond (DWF only)	45.00	11.53	1,610,187	45.00	1,096,402	1,610,187	513,785	1,246,601
VA0063690	Henrico Co.	51.02	9.16	1,409,655	75.00	913,668	1,409,655	495,987	1,742,589
VA0081230	HRSD-Army Base	12.74	23.33	889,458	18.00	438,561	889,458	450,897	2,193,486
VA0081256	HRSD-Boat Harbour	15.48	22.48	1,047,242	25.00	609,112	1,047,242	438,130	2,631,616
VA0081299	HRSD-Nansemond	20.58	17.55	1,091,580	30.00	730,934	1,091,580	360,646	2,992,262
VA0005291	Honeywell-Hopewell	126.82	3.60	1,411,261		1,090,798	1,411,261	320,463	3,312,726
VA0024996	Falling Creek	9.43	13.22	374,984	10.10	123,041	374,984	251,943	3,564,669
VA0025518	RWSA-Moores Creek	9.33	15.71	446,865	15.00	111,468	272,587	161,120	3,725,788
VA0026557	Philip Morris	1.77	15.86	85,243		18,547	85,243	66,696	3,792,484
VA0003697	BWXT	0.51	174.69	272,797		114,070	166,406	52,336	3,844,821
	Hopewell WWTP	27.84	22.28	1,878,221	50.00	1,827,336	1,878,221	50,885	3,895,706
VA0081264	HRSD-Ches/Eliz.	21.04	24.64	1,571,048	24.00	1,526,409	1,571,048	44,639	3,940,345
VA0006408	Greif Bros., Inc.	5.28	8.40	134,982		44,680	82,339	37,659	3,978,004
VA0003026	Ga. Pacific Corp	7.06	8.61	183,775		27,045	55,133	28,088	4,006,092
VA0002780	Brown & Williamson	0.89	17.48	45,395		25,583	45,395	19,812	4,025,904
VA0025437	South Central	14.29	7.00	296,992	23.00	280,192	296,992	16,800	4,042,704
VA0024945	Lake Monticello	0.65	18.70	37,151	0.50	7,394	22,662	15,268	4,057,972
	HRSD-Williamsburg	14.47	12.67	563,061	22.50	548,201	563,061	14,860	4,072,832
	Covington	2.13	11.32	73,084	3.00	10,964	21,925	10,961	4,083,793
	Farmville	1.11	16.76	56,617	2.40	11,110	21,514	10,404	4,094,197
VA0020699	Powhatan Cor. Center	0.32	15.28	14,952	0.47	4,581	11,961	7,381	4,101,578
VA0020991	Buena Vista	1.61	9.55	46,469	2.25	8,223	13,941	5,718	4,107,296
	Tysons-Glen Allen	0.93	8.59	23,879		19,552	23,879	4,327	4,111,623
VA0022772	Clifton Forge	1.65	7.60	37,922	2.00	7,309	11,376	4,067	4,115,690
VA0031321	Amherst	0.23	18.70	12,804	0.40	4,458	7,811	3,352	4,119,042
	Low Moor	0.28	18.70	15,627	0.50	1,827	4,688	2,861	4,121,903
VA0020303	Crewe	0.38	8.53	9,759	0.50	2,315	3,708	1,394	4,123,297
	Proctors Creek	17.63	6.14	326,885	21.50	328,920	326,885	-2,035	4,121,262
VA0004677	Lees Comm. Carpet	0.54	10.07	16,941		9,137	5,082	-4,054	4,117,208
		0.91	8.30	22,809	2.00	10,964	6,843	-4,121	4,113,086
	7	0.03	10.48	119	0.25	4,934	119	-4,815	4,108,271
	Alleg. Co Lower Jackson	0.00	0.00	0	1.50	5,482	0	-5,482	4,102,789
	DuPont-Spruance	26.67	2.50	190,881		201,080	190,881	-10,199	4,092,590
	Mead Westvaco	30.15	3.22	294,490		118,320	88,347	-29,973	4,062,617
VA0003263		0.29	181.00	105,182		158,826	105,182	-53,644	4,008,973
VA0024970		12.68	6.89	264,285	22.00	326,972	161,214	-165,758	3,843,215
VA0081281		28.41	8.73	747,439	40.00	974,579	747,439	-227,140	3,616,075
	Dominion Chesterfield					352,036	0	-352,036	3,264,039
James River	Totals					12,582,319	15,846,358	3,264,039	

			2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD) Avg	TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP
James River									
VA0003646	Mead Westvaco	30.15	3.00	272,484		175,881	299,733	123,852	123,852
VA0025518	RWSA-Moores Creek	9.33	3.53	99,266	15.00	15,076	109,193	94,117	217,969
VA0063690	Henrico Co.	51.02	0.87	128,887	75.00	68,525	128,887	60,362	278,331
VA0003026	Ga. Pacific Corp	7.06	4.22	89,249		40,202	98,174	57,972	336,303
	Richmond (DWF only)	45.00	0.81	112,853	45.00	68,525	112,853	44,328	380,631
	Greif Bros., Inc.	5.28	4.30	69,098		32,663	76,008		423,976
	Proctors Creek	17.63	1.04	56,131	21.50	24,669	56,131	31,462	455,438
VA0024970		12.68	1.45	55,966	22.00	36,851	61,562	24,711	480,149
	Falling Creek	9.43	1.04	28,593	10.10	9,228	28,593	19,365	499,514
	Hopewell WWTP	27.84	0.71	60,759	50.00	45,683	60,759	15,076	514,590
VA0020991	Buena Vista	1.61	3.16	15,306	2.25	2,262	16,837	14,575	529,165
	Clifton Forge	1.65	2.96	14,595	2.00	2,010	16,055	14,045	543,210
	South Central	14.29	0.61	27,220	23.00	21,014	27,220	6,206	549,417
VA0025542		2.13	1.28	8,230	3.00	3,015	9,053	6,038	555,455
	Lake Monticello	0.65	2.50	4,967	0.50	1,000	5,463	4,463	559,918
	HRSD-Army Base	12.74	1.53	59,213	18.00	54,820	59,213	4,393	564,311
	Powhatan Cor. Center	0.32	4.20	4,110	0.47	472	4,521	4,049	568,360
VA0026557	Philip Morris	1.77	1.24	6,694		2,650	6,694	4,044	572,404
VA0083135		1.11	3.10	10,471	2.40	943	4,502	3,559	575,964
	DuPont-Spruance	26.67	0.12	9,726		7,816	9,726	1,910	577,874
	Brown & Williamson	0.89	1.37	3,770		1,919	3,770	1,851	579,725
	HRSD-James River	15.17	1.37	62,717	20.00	60,911	62,717	1,806	581,531
VA0027979		0.28	2.50	2,089	0.50	503	2,298	1,795	583,327
	Lees Comm. Carpet	0.54	8.16	13,543		13,400	14,898	1,497	584,824
	Amherst	0.23	2.50	1,712	0.40	603	1,883	1,280	586,104
	LexRockbridge Reg.	0.91	2.96	3,366	2.00	3,015	3,702	687	586,792
	HRSD-Ches/Eliz.	21.04	1.72	109,337	24.00	108,674	109,337	663	587,455
	Tysons-Glen Allen	0.93	0.24	681		325	681	356	587,811
VA0003697		0.51	1.06	1,647		1,675	1,811	136	587,947
VA0020303		0.38	0.27	343	0.50	197	147	-49	587,898
	Chickahominy WWTP	0.03	6.65	67	0.25	123	67	-56	587,842
	Dominion Chesterfield					210	0	-210	587,632
	Alleg. Co Lower Jackson	0.00	0.00	0	1.50	1,508	0	-1,508	586,124
VA0003263		0.29	18.21	10,982		18,654	10,982	-7,672	578,452
	HRSD-Williamsburg	14.47	1.37	60,095	22.50	68,525	60,095	-8,430	570,022
	Honeywell-Hopewell	126.82	0.09	35,154		51,592	35,154	-16,438	553,584
	HRSD-Boat Harbour	15.48	1.15	54,184	25.00	76,139	54,184	-21,955	531,630
	HRSD-Nansemond	20.58	0.95	58,627	30.00	91,367	58,627	-32,740	498,890
VA0081281		28.41	0.28	24,643	40.00	121,822	24,643	-97,179	401,711
James River	Totals					1,234,466	1,636,177	401,711	

Upper/Middle James River Basin

	January 2005 Tributary Strategy Delivered Allocation (lbs/yr)	Water Quality Management Plan Delivered Allocation (lbs/yr)	% Change
Total N	5,797,937	6,756,371	+17%
Total P	726,118	633,344	-13%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	7,978,983	8,611,241	+8%
Total P	1,269,170	1.196,378	-6%

			2004		Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TN (mg/l)	TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
Upper/Middle	e James River								
VA0063177	Richmond (DWF only)	45.00	11.53	1,610,187	45.00	1,096,402	1,610,187	513,785	513,785
VA0063690	Henrico Co.	51.02	9.16	1,409,655	75.00	913,668	1,409,655	495,987	1,009,773
	Honeywell-Hopewell	126.82	3.60	1,411,261		1,090,798	1,411,261	320,463	1,330,236
VA0024996	Falling Creek	9.43	13.22	374,984	10.10	123,041	374,984	251,943	1,582,179
	RWSA-Moores Creek	9.33	15.71	446,865	15.00	111,468	272,587	161,120	1,743,299
VA0026557	Philip Morris	1.77	15.86	85,243		18,547	85,243		1,809,995
VA0003697	BWXT	0.51	174.69	272,797		114,070	166,406	52,336	1,862,331
	Hopewell WWTP	27.84	22.28	1,878,221	50.00	1,827,336	1,878,221	50,885	1,913,216
	Greif Bros., Inc.	5.28	8.40	134,982		44,680	82,339	37,659	1,950,875
VA0003026	Ga. Pacific Corp	7.06	8.61	183,775		27,045	55,133	28,088	1,978,963
VA0002780	Brown & Williamson	0.89	17.48	45,395		25,583	45,395	19,812	1,998,775
	South Central	14.29	7.00	296,992	23.00	280,192	296,992	16,800	2,015,575
VA0024945	Lake Monticello	0.65	18.70	37,151	0.50	7,394	22,662	15,268	2,030,843
VA0025542	Covington	2.13	11.32	73,084	3.00	10,964	21,925	10,961	2,041,804
VA0083135		1.11	16.76	56,617	2.40	11,110	21,514	10,404	2,052,209
VA0020699	Powhatan Cor. Center	0.32	15.28	14,952	0.47	4,581	11,961	7,381	2,059,589
VA0020991	Buena Vista	1.61	9.55	46,469	2.25	8,223	13,941	5,718	2,065,307
	Tysons-Glen Allen	0.93	8.59	23,879		19,552	23,879		2,069,634
	Clifton Forge	1.65	7.60	37,922	2.00	7,309	11,376		2,073,702
	Amherst	0.23	18.70	12,804	0.40	4,458	7,811	3,352	2,077,054
VA0027979		0.28	18.70	15,627	0.50	1,827	4,688		2,079,914
VA0020303	Crewe	0.38	8.53	9,759	0.50	2,315	3,708	1,394	2,081,308
	Proctors Creek	17.63	6.14	326,885	21.50	328,920	326,885		1,727,237
	Lees Comm. Carpet	0.54	10.07	16,941		9,137	5,082	-4,054	1,723,183
	LexRockbridge Reg.	0.91	8.30	22,809	2.00	10,964	6,843		1,719,062
	Chickahominy WWTP	0.03	10.48	119	0.25	4,934	119		1,714,246
	Alleg. Co Lower Jackson	0.00	0.00	0	1.50	5,482	0	-5,482	1,708,765
VA0004669	DuPont-Spruance	26.67	2.50	190,881		201,080	190,881	-10,199	1,698,565
	Mead Westvaco	30.15	3.22	294,490		118,320	88,347	-29,973	1,668,592
VA0024970		12.68	6.89	264,285	22.00	326,972	161,214	-165,758	1,502,834
VA0004146	Dominion Chesterfield					352,036	0	-352,036	1,729,272
Upper/Middle	e James River Totals					7,108,407	8,611,241	1,502,834	

			2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP
	e James River								
VA0003646	Mead Westvaco	30.15	3.00	272,484		175,881	299,733	123,852	123,852
VA0025518	RWSA-Moores Creek	9.33	3.53	99,266	15.00	15,076	109,193	94,117	217,969
VA0063690	Henrico Co.	51.02	0.87	128,887	75.00	68,525	128,887	60,362	278,331
VA0003026	Ga. Pacific Corp	7.06	4.22	89,249		40,202	98,174	57,972	336,303
VA0063177	Richmond (DWF only)	45.00	0.81	112,853	45.00	68,525	112,853	44,328	380,631
VA0006408	Greif Bros., Inc.	5.28	4.30	69,098		32,663	76,008	43,345	423,976
VA0060194	Proctors Creek	17.63	1.04	56,131	21.50	24,669	56,131	31,462	455,438
VA0024970	Lynchburg	12.68	1.45	55,966	22.00	36,851	61,562	24,711	480,149
VA0024996	Falling Creek	9.43	1.04	28,593	10.10	9,228	28,593	19,365	499,514
VA0066630	Hopewell WWTP	27.84	0.71	60,759	50.00	45,683	60,759	15,076	514,590
VA0020991	Buena Vista	1.61	3.16	15,306	2.25	2,262	16,837	14,575	529,165
VA0022772	Clifton Forge	1.65	2.96	14,595	2.00	2,010	16,055	14,045	543,210
VA0025437	South Central	14.29	0.61	27,220	23.00	21,014	27,220	6,206	549,417
VA0025542	Covington	2.13	1.28	8,230	3.00	3,015	9,053	6,038	555,455
VA0024945	Lake Monticello	0.65	2.50	4,967	0.50	1,000	5,463	4,463	559,918
VA0020699	Powhatan Cor. Center	0.32	4.20	4,110	0.47	472	4,521	4,049	563,967
VA0026557	Philip Morris	1.77	1.24	6,694		2,650	6,694	4,044	568,011
VA0083135	Farmville	1.11	3.10	10,471	2.40	943	4,502	3,559	571,571
VA0004669	DuPont-Spruance	26.67	0.12	9,726		7,816	9,726	1,910	573,481
VA0002780	Brown & Williamson	0.89	1.37	3,770		1,919	3,770	1,851	575,332
VA0027979	Low Moor	0.28	2.50	2,089	0.50	503	2,298	1,795	577,128
VA0004677	Lees Comm. Carpet	0.54	8.16	13,543		13,400	14,898	1,497	578,625
VA0031321	Amherst	0.23	2.50	1,712	0.40	603	1,883	1,280	579,905
	LexRockbridge Reg.	0.91	2.96	3,366	2.00	3,015	3,702	687	580,592
VA0004031	Tysons-Glen Allen	0.93	0.24	681		325	681	356	580,949
	BWXT	0.51	1.06	1,647		1,675	1,811	136	581,085
VA0004146	Dominion Chesterfield						0	0	581,085
VA0020303	Crewe	0.38	0.27	343	0.50	197	147	-49	581,036
VA0088480	Chickahominy WWTP	0.03	6.65	67	0.25	123	67	-56	580,980
VA0090671	Alleg. Co Lower Jackson	0.00	0.00	0	1.50	1,508	0	-1,508	579,472
	Honeywell-Hopewell					51,592	35,154	-16,438	563,034
Upper/Middle	e James River Totals					633,344	1,196,378	563,034	

Lower James River Basin

	January 2005 Tributary Strategy Delivered Allocation	Water Quality Management Plan Delivered Allocation	
	(lbs/yr)	(lbs/yr)	% Change
Total N	5,366,155	5,473,912	+2%
Total P	456,384	600,912	+32%

	2003 Delivered Loads (lbs/yr)	2004 Delivered Loads (lbs/yr)	% Change
Total N	7,127,626	7,235,117	+2%
Total P	484,151	439,799	-9%

		2004			Design Flow	TN Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TN (mg/l)	TN Load (lbs/yr)	(MGD)	Allocation	Delivered TN	TN	Excess TN
Lower James	s River								
VA0081272	HRSD-James River	15.17	26.58	1,220,106	20.00	487,290	1,220,106	732,816	732,816
VA0081230	HRSD-Army Base	12.74	23.33	889,458	18.00	438,561	889,458	450,897	1,183,713
VA0081256	HRSD-Boat Harbour	15.48	22.48	1,047,242	25.00	609,112	1,047,242	438,130	1,621,844
VA0081299	HRSD-Nansemond	20.58	17.55	1,091,580	30.00	730,934	1,091,580	360,646	1,982,490
VA0081264	HRSD-Ches/Eliz.	21.04	24.64	1,571,048	24.00	1,526,409	1,571,048	44,639	2,027,129
VA0081302	HRSD-Williamsburg	14.47	12.67	563,061	22.50	548,201	563,061	14,860	2,041,989
VA0003263	J.H. Miles	0.29	181.00	105,182		158,826	105,182	-53,644	1,988,345
VA0081281	HRSD-VIP	28.41	8.73	747,439	40.00	974,579	747,439	-227,140	1,761,205
Lower James	s River Totals					5,473,912	7,235,117	1,761,205	

			2004		Design Flow	TP Delivered	2004	2004 Excess	2004 Cumulative
Permit No.	Facility	Avg Q (MGD)	Avg TP (mg/l)	TP Load (lbs/yr)	(MGD)	Allocation (lbs/yr)	Delivered TP	TP	Excess TP
Lower James	Lower James River								
VA0081230	HRSD-Army Base	12.74	1.53	59,213	18.00	54,820	59,213	4,393	4,393
VA0081272	HRSD-James River	15.17	1.37	62,717	20.00	60,911	62,717	1,806	6,199
VA0081264	HRSD-Ches/Eliz.	21.04	1.72	109,337	24.00	108,674	109,337	663	6,862
VA0003263	J.H. Miles	0.29	18.21	10,982		18,654	10,982	-7,672	-810
VA0081302	HRSD-Williamsburg	14.47	1.37	60,095	22.50	68,525	60,095	-8,430	-9,240
VA0081256	HRSD-Boat Harbour	15.48	1.15	54,184	25.00	76,139	54,184	-21,955	-31,195
VA0081299	HRSD-Nansemond	20.58	0.95	58,627	30.00	91,367	58,627	-32,740	-63,935
VA0081281	HRSD-VIP	28.41	0.28	24,643	40.00	121,822	24,643	-97,179	-161,113
Lower James	s River Totals					600,912	439,799	-161,113	